

ABSTRACT OF THE DISCLOSURE

Methods for processing speech data are described herein. In one aspect of the invention, an exemplary method includes receiving a speech data stream, performing a Mel Frequency Cepstral Coefficients (MFCC) feature extraction on the speech data stream, optimizing feature space transformation (FST), optimizing model space transformation (MST) based on the FST, and performing recognition decoding based on the FST and the MST, generating a word sequence. Other methods and apparatuses are also described.

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